

COUNCIL COMMUNICATION

TO :	THE CITY COUNCIL	COUNCIL MEETING DATE	NO
FROM:	THE CITY MANAGER'S OFFICE	AUGUST 2, 1989	-
SUBJECT:	SPECIFICATIONS FOR THE PURCHASE OF WOOD UTILITY POLES		

RECOMMENDED ACTION: That the City Council approve the specifications for the purchase of, and authorize advertisement for bids for, a total of 89 wood utility poles, Classes H-1 through 3.

The bid opening date has been set for Tuesday, August 22, 1989.

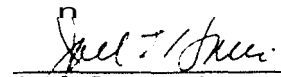
BACKGROUND INFORMATION: The Electric Utility Department has requested that fifty-six poles be purchased to construct three new 60KV overhead lines connecting the new Industrial Substation to the current system. The other thirty-three poles would be placed in inventory to support the Utility Department's program of replacing damaged or deteriorating poles currently in service.

The detail of pole lengths and classes is shown on attachment 1.

Estimated cost of this purchase is \$115,000. The amount required to support the 60KV line construction, about \$100,000, is within the scope of the overall funding for the Industrial Substation project. The balance of the cost, 615,000, represents about one-fourth of the recommended 1989/90 Overhead System Maintenance equipment budget.

Delivery is estimated to be about 12 weeks after placement of order.

Two critical factors are affecting the market for wood poles, pushing prices on longer lengths up as much as 10% over the past 2-3 months. First, exports to Japan are extremely strong. Second, environmental issues concerning the spotted owl have taken nearly two and a half million board feet of timber off the market, primarily in old growth forests where longer poles are harvested. Consequently, shortages are beginning to occur in some lengths and classes, with prices and lead times tending to push upward.



Joel E. Harris,
Purchasing Officer

cc: Electric Utility Director
Assistant Electric Utility Director
Electrical Engineer

Attachment 1

Wood Utility Poles

Length and Class	60KV Line	Stock	Total
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35-foot, Class 3	3	10	13
45-foot, Class 3	-	15	15
55-foot, Class 2	1	-	1
55-foot, Class 3	-	5	5
60-foot, Class 3	-	2	2
65-foot, Class 1	2	-	2
65-foot, Class 2	18	-	18
65-foot, Class 3	-	1	1
70-foot, Class H1	3	-	3
70-foot, Class 1	6	-	6
70-foot, Class 2	7	-	7
80-foot, Class H1	4	-	4
80-foot, Class 1	3	-	3
80-foot, Class 2	1	-	1
85-foot, Class H1	1	-	1
90-foot, Class H1	3	-	3
90-foot, Class 1	2	-	2
100-foot, Class H1	2	-	2
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TOTALS	56	33	89

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CITY OF LODI ELECTRIC UTILITY DEPARTMENT

SPECIFICATIONS

WOOD UTILITY POLES

1.0 SCOPE

These specifications cover the minimum acceptable quality of full-length wood poles for use in the City of Lodi's overhead distribution and subtransmission system.

2.0 SPECIFICATIONS

The following specifications shall be met:

- A. Poles and methods of manufacturing shall be in accordance with ANSI Standard 05.1-1979, "Specifications and Dimensions for Wood Poles," or the latest revision thereof, except the spiral grain of any poles shall not exceed one complete twist in any 30 feet.
- B. Poles shall be cut, marked and bored as specified in Section 6.0 of this specification.
- C. Poles that are drilled, other than as specified, (i.e. for better preservative penetration, etc.) will **be** rejected.

3.0 TREATING REQUIREMENTS

The following requirements shall be met:

- A. Prior to treatment, poles shall be seasoned to a maximum of 25% (twenty-five percent) moisture content *of* the sapwood based upon the oven-dried weight.
- B. Poles shall be Douglas Fir and pressure-treated with pentachlorophenol **by** Cellog, Dow process in accordance with

the requirements of AWPAA* Standards C1, "All Timber Products--Preservative Treatment by Pressure Processes," and C4, "Poles--Preservative Treatments by Pressure Processes," or the latest revisions thereof.

C. The pentachlorophenol shall meet the requirements of AWPAA Standard P8, "Standards for Organic Preservative Systems," or the latest revision thereof. The carriers shall be a petroleum solvent in conformance with the latest edition of AWPAA Standard P9, "Standard for Hydrocarbon Solvents for Oil-Borne Preservative."

D. Retention shall be not less than 0.45 pounds of pentachlorophenol per cubic foot of wood.

4.0 OTHER SPECIES AND TREATMENTS

Quotations on species other than Douglas Fir and quotations on Douglas Fir pressure treated with pentachlorophenol in a heavy petroleum solution which otherwise meet or exceed the requirements of these specifications will be considered as an alternate.

5.0 HANDLING AND SHIPPING

The following requirements shall be met:

- A. After treatment, the pole surface shall not be damaged by dragging or from the use of cant hooks, peavies, tongs, cables, slings and other tools normally used in pole-handling operations.
- B. Unloading shall be performed only by crane or boom supplied by the trucker/bidder. All shipments will be F.O.B. Lodi, California.

* AWPAA - American Wood-Preservers' Association

6.0 ADDITIONAL REQUIREMENTS

The following requirements shall be met:

A. Marking

Poles **shall** be permanently marked on the **face and the** butt of each pole in accordance with ANSI Standard 05.1-1979.

Exception: The distance of the pole brands from the butt shall be :

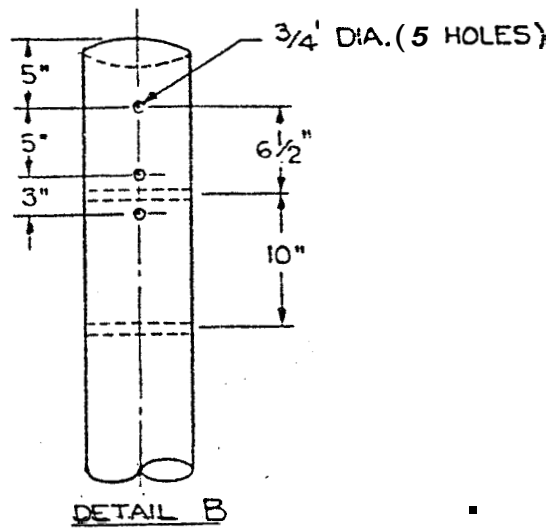
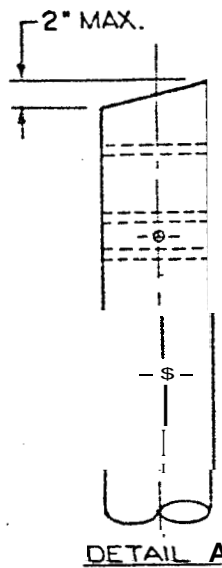
10' for 50' pole lengths and below

14' for 55' - 75' pole lengths

18' for 80' - 100' pole lengths

B. Cutting and Boring

- ° Full-length treated poles shall be cut, bored (if required) and marked before treatment.
- ° Poles shall be cut **so that** the butts are approximately square.
- ° Poles shall be cut so that the tops have a slope *in any* direction of not more than two inches (2") over the diameter (refer to Detail A).
- ° All 45' and 50' poles shall have **holes** bored as shown in Detail B.



POLE TOP
BORING REQUIREMENTS
FOR 45' & 50' POLES ONLY



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

ENGINEERING STANDARD
SPECIFICATIONS
WOOD UTILITY POLES

7/13/69					SHEET 54 OF 54
DATE	DRAWN	CHECKED	STD. COMM. CHAIRMAN	APPROVAL	REVISION 0